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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,432	07/17/2003	Gary A. Strobel	34373/0007	4064
7590 10/30/2009 Michelle Samonek, Agraquest, Inc			EXAMINER	
1530 Drew Avenue			MARX, IRENE	
Davis, CA 956	518		ART UNIT	PAPER NUMBER
			1651	
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			10/30/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/623 432 STROBEL ET AL. Office Action Summary Examiner Art Unit Irene Marx 1651 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 27 July 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 101-105 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 101-105 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (FTO/S5/08)
Paper No(s)/Mail Date _______.

Attachment(s)

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

5 Notice of Informal Patent Application

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DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/27/09 has been entered.

To clarify the invention, "2-methyl-1 butanol" should be corrected in claim 101.

Also, in claim 101 it is recommended that the claim be amended to read: --A method for inhibiting the growth...- in conformity with standard preamble practice.

Title

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112: The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 101-105 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

No basis or support is found in the present specification for the amounts of "about 24%" and "about 48%" of 2-methyl-1-butanol. The amounts in the table are 47.5 and 23.75. There is no clear basis or support for the amounts now recited.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person Application/Control Number: 10/623,432

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 31 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates or each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior at under 35 U.S.C. 103(a).

Claims 101-105 are rejected under 35 U.S.C. 103(a) as being unpatentable over Herting et al. (U.S. Patent No. 3,895,116) taken with Rehnig et al. (U.S. Patent No. 5,968,964) and Saksena et al. (Acta Microbiol Hung. 1987;34(3-4):255-7).

The claims are directed to a method of inhibiting the growth of microbes on post harvest food such as fruit and vegetables by applying a composition comprising isobutyric acid and 2-methyl-1-butanol in certain amounts.

Herting et al. disclose a method of applying a composition comprising isobutyric acid among other volatiles to fruit or vegetables to inhibit growth of one or more microbes. See, e.g., Table 1. It is noted that corn botanically speaking is a caryopsis or dry fruit, Moreover, peanuts are also fruit. The container is a polyethylene bag (col. 7, paragraph 1).

The reference differ from the claimed invention in that the use of 2-methyl-1-butanol is not disclosed. However, Rhenig et al. teach a method of inhibiting the growth of microbes on post harvest food such as fruit and vegetables by applying a composition comprising isobutanol and 2-methyl-1-butanol. See, e.g., col. 4, lines 13-65. It is noted that the percentages provided in the reference correspond to those claimed (col. 4, lines 60-65). Even though in Rhenig the mixture contains an antifungal compound, this is encompassed by the open language of the invention as claimed. In addition, Saksena et al. teach the antifungal effects of 2-methylbutanol and 3n-butanol without and with isobutanol on common plant pathogens.

The process conditions discussed in the references appear to be substantially the same as claimed. However, even if they are not, the adjustment of process conditions for optimization purposes identified as result-effective variables cited in the references would have been prima facic obvious to a person having ordinary skill in the art, since such adjustment is at the essence of biotechnical engineering.

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Therefore, it would have been obvious to one having ordinary skill in the art at the time the claimed invention was made to modify the process of Herting et al. of applying a composition comprising isobutyric acid to fruit or vegetables to inhibit growth of one or more microbes by adding further volatiles to the composition such as 2-methyl-1-butanol as suggested by the teachings of Rehnig et al. and Saksena et al. for the expected benefit of inhibiting the growth of harmful microbes such as fungi on post harvest food for economic and environmental concerns.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Irene Marx whose telephone number is (571) 272-0919. The examiner can normally be reached on M-F (6:30-3:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (foll-free).

/Irene Marx/ Primary Examiner Art Unit 1651